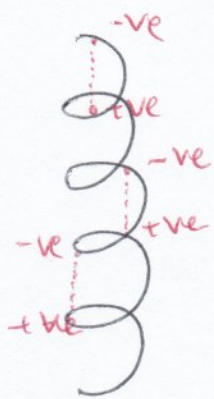


At low °C:

- ① molecules have low KE
- ② few collisions
- ③ less ES complexes
- ④ ROR is lower
- ⑤ molecules move more slowly
- ⑥ so difficult to reach AE

Effect of pH

pH is a measure of H^+ concentration



* H bonds hold structures, like an α helix, in place in proteins

* H^+ ions are attracted to negative parts of molecules

* H bonds & ionic bonds (formed from opposite charges on AA's) hold the structure in place

* H^+ ions interfere with bonding.

At the optimum pH:

- The concentration of H^+ ions gives the 3^o structure of enzymes the best overall shape
- Thus it holds the active site in a shape that is complementary to the substrate

preview from Notesale.co.uk
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